

2004

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/32284

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04M 3/00; H04B 7/00, 1/38; G06F 9/46
US CL : 455/418, 419, 420, 524, 560, 561; 709/330

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 455/418, 419, 420, 524, 560, 561; 709/330

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P — Y,P	US 6,622,017 B1 (HOFFMAN) 16 September 2003 (16.09.2003), abstract; column 9, lines 32-42; column 10, lines 5-60; Figures 1-2.	1-5, 10-12 — 6-9, 13
Y	US 6,052,600 A (FETTE et al.) 18 April 2000 (18.04.2000), abstract; column 4, lines 25-44, column 8, lines 21- column 9, line 19; Figures 1-4.	6-9, 10-13
Y	US 6,321,275 B1 (MCQUISTAN et al.) 20 November 2001 (20.11.2001) abstract; column 1, lines 19-64; column 5, line 1 - column 6, line 46; Figures 2-8.	6-9, 10-13, 19-24
X,E — Y,E	US 6,643,506 B1 (CRISS et al) 04 November 2003 (04.11.2003), column 7, lines 15 - col 8, line 54; column 14, lines 14-54; Figures 2, 8a-b, 15a-b.	14-18, 25-29 — 19-24

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Further documents are listed in the continuation of Box C.

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See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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document member of the same patent family

Date of the actual completion of the international search

26 January 2004 (26.01.2004)

Date of mailing of the international search report

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Marsha Banks-Harold

Telephone No. (703)305-3444